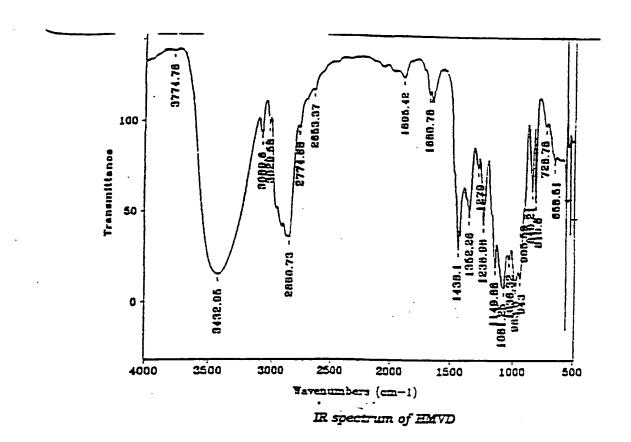
2-hydroxymethyl--1, 3-vinyl Dioxolane

Dimethyl Cyclchexane-1, 3-dicarboxylate

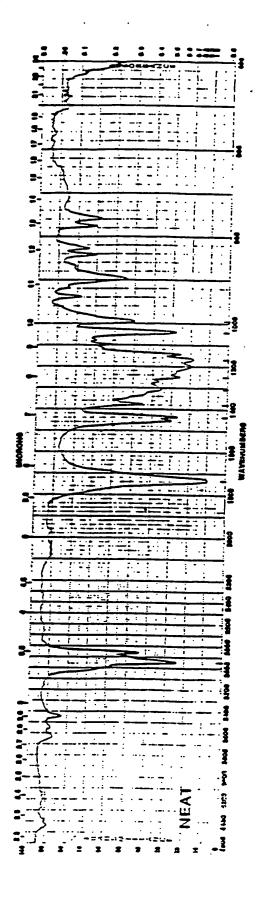
FIGURE 1

FIGUR = 2

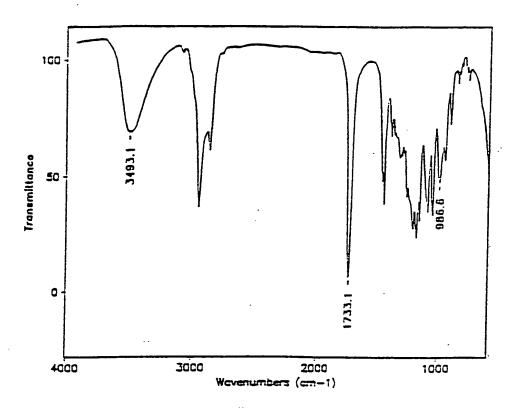
FIGURE3



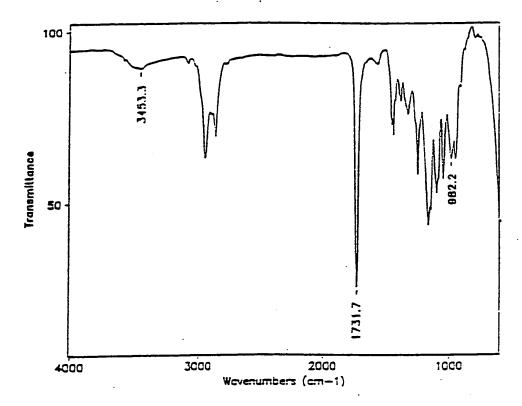
F1G.5



IR spectrum of Almethyl 1,4-cyclohexanedicarboxylate



IR spectrum of the reaction dispersion prior to any prepolymer formation



IR spectrum of the reaction dispersion after appreciable amounts of PEVD prepolymer has formed

$$H_{2}C_{d} - C_{e} - H_{2}C_{1} - O - C_{g} - C_{n}$$

$$H_{2}C_{d} - C_{e} - H_{2}C_{1} - O - C_{g} - C_{n}$$

$$H_{2}C_{d} - C_{e} - C_{e} - C_{e} - C_{e} - C_{e}$$

$$H_{2}C_{d} - C_{e} - C_{e} - C_{e} - C_{e}$$

$$H_{2}C_{d} - C_{e} - C_{e}$$

$$H_{2}C_{e} - C_{e}$$

$$H_{2}C_{e} - C_{e}$$

$$H_{2}C_{e} - C_{e}$$

$$H_{2}C_{e} - C_{e}$$

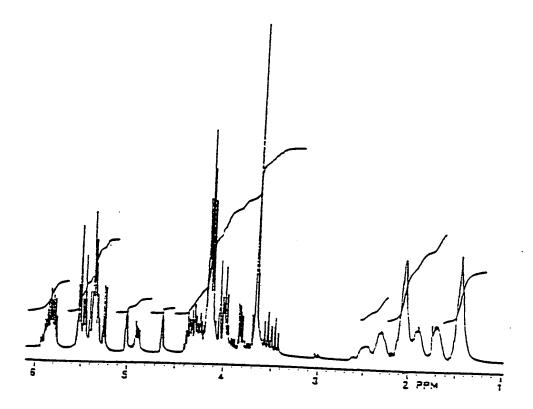
$$H_{3}C_{e} - C_{e}$$

$$H_{4}C_{e} - C_{e}$$

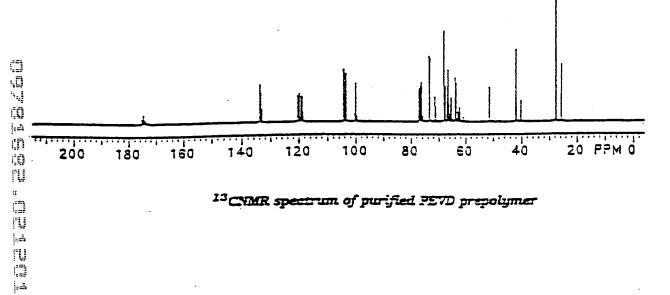
$$H_{5}C_{e} - C_{e}$$

$$H_{5}C$$

Chemical structure of PEVD prepolymer lebeled for NMR analysis



<sup>1</sup> HVMR spectrum of purified PEVD prepolymer



<sup>13</sup>CNMR spectrum of purified PEVD prepolymer